Page 1 of 19

SEP 1 5 ZOGA & SE).
TA TRADEMENTO	

FORM PTO-1449

FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

_			Fage	1	OT	т;
	ATTY. DOCKET NO. 1700.0190004/BJD/SJE	APPLICATION 10/050,902	NO.			
	APPLICANT RENNER et al.					
	FILING DATE January 18, 2002	GROUP 1648				

					January 18, 2002		1648	
				U.S. PA	TENT DOCUMENTS			
EXAMINER INITIAL		DOC	UMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DAT
	AA							
	AB						R	ECEIVE
	AC							
	AD							SEP 16 7013
	AE							DE1 - 4 U . 1 . 1 . 1
	AF							
	AG		·····				TE	HICENTER 1880/
	AH							
	AI						-	
	AJ							
	AK							
				FOREIGN P	ATENT DOCUMENTS			
EXAMINER								
INITIAL		DOC	UMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL		***************************************					Ye N
	AM							Ye N
MM	AN3	EP (0 259 149 B1	12/15/1993	Europe			Ye No
	A03	EP (0 385 610 B1	03/16/1994	Europe			Ye:
$\underline{\hspace{1cm}}$	AP3	WO S	94/06472 Al	03/31/1994	WIPO			Yei X No
		0	THER (Includin	g Author, Ti	tle, Date, Pertinent Pa	ages, etc	.)	
мм	AR	81	Infection of	Neonatal Mad	nogenicity of Live, Att caques," <i>Science 267</i> :18 cience (1995)	enuated 8 20-1825,	SIV After Mu American As	cosal sociation
	AS	81	Virus-like pa	articles for	Dendritic cells proces class I presentation t 2600, VCH Verlagsgesel	o CD8* cvi	otoxic T li	oteins and mphocytes, "
V	AT	81	Boorsma, M., system, Wat.	et al., "A t Biotechnol.	emperature-regulated r 18:429-432, Nature Am	eplicon-l erica, In	pased DNA ex ac. (April 2	pression 000)
XAMINER		V	Vochom/	· · · · · · · · · · · · · · · · · · ·		DATE	ONSIDERED	······································

/Mary Mosher/

DATE CONSIDERED

08/31/2005

Page 2 of 15

FORM PTO-1449

FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.	APPLICATION NO.
1700.0190004/BJD/SJE	10/050,902
APPLICANT RENNER et al.	
FILING DATE	GROUP
January 18, 2002	1648

	January 18, 2002 1648									
					U.S. PA	TENT DOCUMENTS				
EXAMIN		ł								
INITIA	ւ	+	DOC	UMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE	
		AA	+		 		-		050	
		AB	+					HE	CEIVED	
		AD	╅						 	
		AE	+				 	SE SE	P 16 2003	
		AF	 				 			
	"	AG	1	·-····			 	TECH C	ENTER 1600/2900	
		АН	1		 		 	<u> </u>		
	**********	AI		-		-	 			
		AJ		· · · · · · · · · · · · · · · · · · ·						
		AK						-		
					FOREIGN P.	ATENT DOCUMENTS	·			
EXAMINE							T			
INITIAL	<u>. </u>		DOC	UMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
	MM	AL4	EP (0 465 081 B1	04/20/1994	Europe	1		Yes	
*************	Ī	 		- 103 VOL DI	02/20/1994	Burope	 		No	
	<u> </u>	AM4	EP (283 505 B1	07/06/1994	Europe			Yes No	
	1	AN4	1,,,,	24/15505 24					Yes	
	+-	AN4	WO :	94/15585 A1	07/21/1994	WIPO			No	
		A04	EP (425 082 A1	04/26/1995	Europe			Yes No	
1									Yes	
	<u> </u>	AP4		96/05293 A1	02/22/1996	WIPO			No	
		Т	0	THER (Including	g Author, Ti	tle, Date, Pertinent Pag	es, etc	.)		
MM Borisova, G., et al., "Hybrid Hepatitis B Virus Nucle Immunodominant Region from Hepatitis B Virus Surface 67:3696-3701, American Society for Microbiology (1993)						face Ant	apsid Bearin rigen," J. V	g an <i>irol</i> .		
		AS	Cesareni, G., "Peptide display on filamentous phage capsids: A new powerful tool to study protein-ligand interaction," FEBS Lett. 307:66-70, Elsevier Science Publishers B.V. (1992)							
	/	АТ	82	intected by H	luman Immunod t gp120 Subu	munological and Virolog eficiency Virus Type 1 nit Vaccines," J. Virol (1998)	while Da	rticinating	in Triale	
EXAMINE	R	/	Mary	Mosher/			DATE C	ONSIDERED	08/31/200	

TE TRADEN

FORM PTO-1449 FIFTH SUPPLEMENTAL

ATTY. DOCKET NO. 1700.0190004/BJD/SJE

APPLICATION NO. 10/050,902

APPLICANT RENNER et al.

	F	FTH S	<u>UPPLEMENTAL</u>		AEMMER CC AI.					
INE			SCLOSURE STATE	MENT	FILING DATE January 18, 2002			GROUP 1648		
				U.S. PA	TENT DOCUMENTS					
EXAMINER INITIAL						LASS	SUB-CLASS	FILING DAT		
	AA	—					·····			
	AB			 					-	
	AC AD	+		 	 		·	RECEN	AER	
	AE									
<u> </u>	AF	+		 				SEP 167	1003	
	AG				 			<u> </u>	 	
	АН							TECH CENTER 1	0001000	
	AI		· · · · · · · · · · · · · · · · · · ·		-					
	AJ									
	AK									
				FOREIGN P	ATENT DOCUMENTS					
XAMINER NITIAL		DOC	UMENT NUMBER	DATE	COUNTRY	CL	ASS	SUB-CLASS	TRANSLATIO	
MM	AL5	WO :	99/07839 A2	02/18/1999	WIPO				Ye 1	
	AM5	WO :	99/40934 A1	08/19/1999	WIPO				Ye N	
	AN5	WO :	99/67293 Al	12/29/1999	WIPO				Ye N	
	AO								Ye N	
<u> </u>	AP								Ye N	
		0'	THER (Includin	g Author, Ti	tle, Date, Pertine	at Pages,	etc	.)		
ММ	AR	83	functional ge	llamentous ph ene products	, "Display of biol lages: a cDNA cloni linked to the gene .37:69-75, Elsevier	ing system	m for rmati	selection on responsi	of ble for	
	AS	83	Daniel, M.D. a Deletion in the Advanceme	ı tne ner Gen	otective Effects o e," <i>Science 258</i> :19 e (1992)	of a Live 38-1941,	Atte Amer	nuated SIV ican Associ	Vaccine wit ation for	
V	de la Cruz, V.F., et al., "Immunogenicity and Epitope Mapping of Foreign Sequences via Genetically Engineered Filamentous Phage," J. Biol. Chem. 263:4318-4322, The American Society for Biochemistry and Molecular Biology, Inc. (1988)						hem.			
KAMINER	/	Mary	Mosher/		······································	DA	TE C	ONSIDERED	08/31/20	

08/31/2006

SEP 1 5 2003 &

EXAMINER

/Mary Mosher/

FORM PTO-1449

ATTY. DOCKET NO. 1700.0190004/BJD/SJE

APPLICATION NO. 10/050,902

DATE CONSIDERED

08/31/2005

APPLICANT RENNER et al.

FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

FILING DATE GROUP
January 18, 2002 1648

U.S. PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT NUMBER DATE NAME CLASS SUB-CLASS FILING DATE AA AB AC AD AE AF AG TECH CENTER 1600/2900 AН ΑI ДJ AK FOREIGN PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS TRANSLATION Yes AT. No Yes AM No Yes AN No Yes AO No Yes AP No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) MM Donnelly, J.J., et al., "DNA Vaccines," Annu. Rev. Immunol. 15:617-648, Annual AR <u>84</u> Reviews, Inc. (1997) Ebina, S., et al., "Chemical Modification of Bovine Pancreatic Trypsin Inhibitor for Single Site Coupling of Immunogenic Peptides for NMR AS 84 Conformational Analysis, J. Biol. Chem. 264:7882-7888, The American Society for Biochemistry and Molecular Biology, Inc. (1989) Esposito, G., et al., "Conformational study of a short Pertussis toxin T cell epitope incorporated in a multiple antigen peptide template by CD and twodimensional NMR: Analysis of the structural effects on the activity of synthetic immunogens, " Eur. J. Biochem. 217:171-187, Blackwell Science Ltd. on AT 84 behalf of the Federation of European Biochemical Societies (1993)



FORM PTO-1449

ATTY. DOCKET NO. 1700.0190004/BJD/SJE APPLICATION NO. 10/050,902

APPLICANT RENNER et al.

FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

FILING DATE January 18, 2002 GROUP 1648

					January 18, 20	V4	1648	
				U.S. P.	ATENT DOCUMENTS	· · · · · · · · · · · · · · · · · · ·		
EXAMINER INITIAL	i	Doc	UMENT NUMBER	DATE	NAME	GT 100	CVTD CT 100	777 TVG 73.
INTITAL	AA	1200	OMENI NOMBER	LATE	NAPIE	CLASS	SUB-CLASS	FILING DATE
	AB	+	· · · · · · · · · · · · · · · · · · ·	 			REC	FIAFO
	AC	+					 	- 0000
	AD	1					SEI	16 2003
	AE		· · · · · · · · · · · · · · · · · · ·	1			<u> </u>	
	AF						TECHC	ENTER 1800/290
	AG							
	АН							
	AI							
	АJ							
	AK							
				Foreign	PATENT DOCUMENTS			
EXAMINER		1						
INITIAL		DOC	UMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATIO
	AL							Ye N
							<u> </u>	Ye
	AM	 						N
	AN							Ye
		1					<u> </u>	Ye.
	AO							N-
								Ye
	AP			1			1	N
			THER (Includin	g Author, T	itle, Date, Perti	nent Pages, etc	:.)	
MM 	AR	85	bee venom pho	ospholipase patients wi	atural and recomb A ₂ has the same p ith Hymenoptera a r Book, Inc. (199	ootency to releable of the control o	ase bistamin	e from
	AS	85	Frolov, I., applications, Press (1996)	et al., "Alg " Proc. Nat	phavirus-based exp	pression vector A 93:11371-1137	s: Strategie 7, National	s and Academy
	AT	<u>85</u>	Gilbert, S.C. epitopes," <i>Na</i>	., et al., " at. Biotechn	A protein partic	le vaccine cont , Nature Americ	aining multi a Publishing	ple malaria (1997)
XAMINER	4	M	Worker/			D3.000	OMOTORDED	

EXAMINER

/Mary Mosher/

DATE CONSIDERED

08/31/2005

Page 6 of 15

SP 1 5 2003 &

FORM PTO-1449

FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

	DOCKET NO. 0190004/BJD/SJE	APPLICATION NO. 10/050,902	
APPLI RENNE	CANT R et al.		
	G DATE ry 18, 2002	GROUP 1648	

AM AN AN AN AN AN AN AN AN AN						January 18, 2002	<u> </u>	1648	
INITIAL DOCUMENT NUMBER DATE NAME CLASS SUB-CLASS PILING DATE AB AC AD AE AF AG AR AI AI AI AI AN AN FOREIGN PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS TRANSLATI COUNTRY CLASS SUB-CLASS TRANSLATI AM AN AN AN AN AN CREENITIAL AN AN AN AN AN AN AN AN AN					U.S. PA	TENT DOCUMENTS			
AB AB AC AD AB AE AF AG AG AH AI AJ AJ AN AN COUNTRY CLASS SUB-CLASS TRANSLATI COUNTRY AN AN AN AN AN AN AN AN AN A			DOG	CUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DAT
AF AG AG AH AI AI AJ AJ AK POREIGN PATENT DOCUMENTS EXAMINER (NITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS TRANSLATION AN		AA							
AF AG AG AH AI AI AJ AJ AK POREIGN PATENT DOCUMENTS EXAMINER (NITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS TRANSLATION AN		AB						SECE	MEA
AR AG AND		AC						HE	
AR AG AND		AD						cro 1	6 2003
AF AG AG AH AI AI AJ AJ AK POREIGN PATENT DOCUMENTS EXAMINER (NITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS TRANSLATION AN		AE						361	. ,
AH AJ AJ AK FOREIGN PATENT DOCUMENTS EXAMINER NITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS TRANSLATI AL AM AM AN		AF							1800/2900
AR AND		AG						TECHCE	100
AX SCI. USA 95:1800-1805, National Academy Press (1998) AX BAR SOCIALISM TRANSLATI AL AR BE Harding, C.V., and Song, R., "Phagocytic Processing of Exogenous Particulate Antigens by Macrophages for Presentation by Class I MEC Molecules," J. Immuno 153:4925-4933, The American Association of Immunologists (1994)	···	AH							
FOREIGN PATENT DOCUMENTS XAMINER NITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS TRANSLATI AL AM AM AN		AI		-		-		1	
TAMINER AS 86 Hahn, C.S., et al., "Infectious Sindbis virus transient expression vectors for studying antigen processing and presentation," Proc. Natl. Acad. Sci. USA 89:2679-2683, National Academy Press (1992) AT 86 Harding, C.V., and Song, R., "Phagocytic Processing of Exogenous Particulate Antigens by Macrophages for Presentation by Class I MHC Molecules," J. Immuno 153:4925-4933, The American Association of Immunologists (1994)		AJ		·					
AL AM AM AN CTHER (Including Author, Title, Date, Pertinent Pages, etc.) CTHER (Including Author, Title, Date, Pertinent Pages, etc.) CTHER (Including Author, Title, Date, Pertinent Pages, etc.) AR AR Greenstone, H.L., et al., "Chimeric paillomavirus virus-like particles elicit antitumor immunity against the E7 oncoprotein in an HPV16 tumor model," Proc. Natl. Acad. Sci. USA 95:1800-1805, National Academy Press (1998) AS 86 Hahn, C.S., et al., "Infectious Sindbis virus transient expression vectors fo studying antigen processing and presentation," Proc. Natl. Acad. Sci. USA 89:2679-2683, National Academy Press (1992) AT 86 Harding, C.V., and Song, R., "Phagocytic Processing of Exogenous Particulate Antigens by Macrophages for Presentation by Class I MHC Molecules," J. Immuno 153:4925-4933, The American Association of Immunologists (1994)		AK							
NITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS TRANSLATI AL AM AN AN AN OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Greenstone, H.L., et al., "Chimeric paillomavirus virus-like particles elicit antitumor immunity against the E7 oncoprotein in an HPV16 tumor model," Proc. Natl. Acad. Sci. USA 95:1800-1805, National Academy Press (1998) AS 86 Hahn, C.S., et al., "Infectious Sindbis virus transient expression vectors for studying antigen processing and presentation," Proc. Natl. Acad. Sci. USA 89:2679-2683, National Academy Press (1992) AT 86 Harding, C.V., and Song, R., "Phagocytic Processing of Exogenous Particulate Antigens by Macrophages for Presentation by Class I MHC Molecules," J. Immuno 153:4925-4933, The American Association of Immunologists (1994)					FOREIGN P	ATENT DOCUMENTS			
AN AN OTHER (Including Author, Title, Date, Pertinent Pages, etc.) OTHER (Including Author, Title, Date, Pertinent Pages, etc.) OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Greenstone, H.L., et al., "Chimeric paillomavirus virus-like particles elicit antitumor immunity against the E7 oncoprotein in an HPV16 tumor model," Proc. Natl. Acad. Sci. USA 95:1800-1805, National Academy Press (1998) AS BE Hahn, C.S., et al., "Infectious Sindbis virus transient expression vectors for studying antigen processing and presentation," Proc. Natl. Acad. Sci. USA 89:2679-2683, National Academy Press (1992) AT BE Harding, C.V., and Song, R., "Phagocytic Processing of Exogenous Particulate Antigens by Macrophages for Presentation by Class I MHC Molecules," J. Immuno 153:4925-4933, The American Association of Immunologists (1994)			DOC	CUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATIO
AN		AL		,					Ye N
AN AD OTHER (Including Author, Title, Date, Pertinent Pages, etc.) MM AR B6 Greenstone, H.L., et al., "Chimeric paillomavirus virus-like particles elicit antitumor immunity against the E7 oncoprotein in an HPV16 tumor model," Proc. Natl. Acad. Sci. USA 95:1800-1805, National Academy Press (1998) AS B6 Hahn, C.S., et al., "Infectious Sindbis virus transient expression vectors for studying antigen processing and presentation," Proc. Natl. Acad. Sci. USA 89:2679-2683, National Academy Press (1992) AT B6 Harding, C.V., and Song, R., "Phagocytic Processing of Exogenous Particulate Antigens by Macrophages for Presentation by Class I MHC Molecules," J. Immuno 153:4925-4933, The American Association of Immunologists (1994)		MA			-				Ye
OTHER (Including Author, Title, Date, Pertinent Pages, etc.) MM AR 86 Greenstone, H.L., et al., "Chimeric paillomavirus virus-like particles elicit antitumor immunity against the E7 oncoprotein in an HPV16 tumor model," Proc. Natl. Acad. Sci. USA 95:1800-1805, National Academy Press (1998) AS 86 Hahn, C.S., et al., "Infectious Sindbis virus transient expression vectors for studying antigen processing and presentation," Proc. Natl. Acad. Sci. USA 89:2679-2683, National Academy Press (1992) AT 86 Harding, C.V., and Song, R., "Phagocytic Processing of Exogenous Particulate Antigens by Macrophages for Presentation by Class I MHC Molecules," J. Immuno 153:4925-4933, The American Association of Immunologists (1994)		AN							Ye
OTHER (Including Author, Title, Date, Pertinent Pages, etc.) MM AR 86 Greenstone, H.L., et al., "Chimeric paillomavirus virus-like particles elicit antitumor immunity against the E7 oncoprotein in an HPV16 tumor model," Proc. Natl. Acad. Sci. USA 95:1800-1805, National Academy Press (1998) AS 86 Hahn, C.S., et al., "Infectious Sindbis virus transient expression vectors for studying antigen processing and presentation," Proc. Natl. Acad. Sci. USA 89:2679-2683, National Academy Press (1992) AT 86 Harding, C.V., and Song, R., "Phagocytic Processing of Exogenous Particulate Antigens by Macrophages for Presentation by Class I MEC Molecules," J. Immuno 153:4925-4933, The American Association of Immunologists (1994)		AO							N Ye
MM AR 86 Greenstone, H.L., et al., "Chimeric paillomavirus virus-like particles elicit antitumor immunity against the E7 oncoprotein in an HPV16 tumor model," Proc. Natl. Acad. Sci. USA 95:1800-1805, National Academy Press (1998) AS 86 Hahn, C.S., et al., "Infectious Sindbis virus transient expression vectors for studying antigen processing and presentation," Proc. Natl. Acad. Sci. USA 89:2679-2683, National Academy Press (1992) AT 86 Harding, C.V., and Song, R., "Phagocytic Processing of Exogenous Particulate Antigens by Macrophages for Presentation by Class I MHC Molecules," J. Immuno 153:4925-4933, The American Association of Immunologists (1994)		AP							Ye.
MM AR 86 Greenstone, H.L., et al., "Chimeric paillomavirus virus-like particles elicit antitumor immunity against the E7 oncoprotein in an HPV16 tumor model," Proc. Natl. Acad. Sci. USA 95:1800-1805, National Academy Press (1998) Hahn, C.S., et al., "Infectious Sindbis virus transient expression vectors for studying antigen processing and presentation," Proc. Natl. Acad. Sci. USA 89:2679-2683, National Academy Press (1992) AT 86 Harding, C.V., and Song, R., "Phagocytic Processing of Exogenous Particulate Antigens by Macrophages for Presentation by Class I MHC Molecules," J. Immuno 153:4925-4933, The American Association of Immunologists (1994)				THER (Including	a Nathan Mil	3			N
AT Be Studying antigen processing and presentation, "Proc. Natl. Acad. Sci. USA 89:2679-2683, National Academy Press (1992) Harding, C.V., and Song, R., "Phagocytic Processing of Exogenous Particulate Antigens by Macrophages for Presentation by Class I MHC Molecules, "J. Immuno 153:4925-4933, The American Association of Immunologists (1994)	мм ј	AR		Greenstone, H	.L., et al.,	"Chimeric paillomaving the E7 oncompose in	us virus-	like partic	les elicit el," <i>Proc</i> .
Antigens by Macrophages for Presentation by Class I MHC Molecules," J. Immuno 153:4925-4933, The American Association of Immunologists (1994)		AS	<u>86</u>	I scudying anti-	Hahn, C.S., et al., "Infectious Sindbis virus transient expression vectors for studying antigen processing and presentation," Proc. Natl. Acad. Sci. USA 89:2679-2683, National Academy Press (1992)				
		AT	<u>86</u>	Lumradens by Ma	acrophages r	or Presentation by Cla	ee T MUC	Malagulag II	rticulate J. Immunol
	KAMINER	/	Mary	Mosher/			DATE C	ONSIDERED	08/31/20





FORM PTO-1449

FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1700.0190004/BJD/SJE	APPLICATION NO. 10/050,902
APPLICANT RENNER et al.	
FILING DATE	GROUP

IN	INFORMATION DISCLOSURE STATEMENT FILING DATE January 18, 2002			GROUP 1648					
				v.s.	PATENT DOCUMENTS	<u> </u>			
EXAMINER INITIAL		DOC	UMENT NUMBER	DATE	NAME		CLASS	SUB-CLASS	FILING DATE
	AA								
	AB							RECE	AFF
	AC							p co	
	AD			<u> </u>				SEP 16	2003
	AE								
	AP	<u> </u>						TECH CENTE	10012800
	AG	-						TECH CEREE	
	AH								
	AI								-
	AJ								
	AK			<u> </u>				<u> </u>	
				FOREIGN	PATENT DOCUMENTS				·
EXAMINER INITIAL		מסמי	UMENT NUMBER	DATE	COUNTRY		CLASS	CID-CLACE	TRANCI STION
1011100		1000	DARNI NOMBEK	DATE	COONTRI		CUASS	SUB-CLASS	TRANSLATION
	AL								Yes No
									Yes
	AM	+-			- 				No
	AN								Yes No
	AO								Yes No
									Yes
	AP	<u> </u>		ł				ļ	No
		0'	THER (Includin	g Author,	Title, Date, Pertin	ent Page	s, etc	.)	
мм	AR	87	Hilleman, M. Med. Vaccine	R., "Six de Suppl. 4:!	ecades of vaccine d 507-514 (May 1998)	evelopme	nt - a	personal h	istory," Nat.
	AS	<u>87</u>	extension car	n assemble	Hepatitis B viral c into core-like par 59, Society for Gen	ticles b	ut can	not be envel	rminal Loped," J.
	AT	87	Library Disp:	layed at Hi	Construction, Explo gh Density by Fusion. Chem. 378:517-5	on to th	e Maio:	Coat Prote	in of
BXAMINER	/	Mary	Mosher/				DATE (CONSIDERED	08/31/200

Page 8 of 15



FORM PTO-1449

FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY.	DOCKET	NO.	
1700.	0190004	/BJD	/sji

APPLICATION NO. 10/050,902

APPLICANT

RENNER et al.

FILING DATE January 18, 2002 GROUP 1648

					January 18, 2002		1648	
				U.S. PA	TENT DOCUMENTS			
EXAMINER INITIAL		DOC	UMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DAT
	AA							
	AB						DE	P 16 2003
	AC						M-	
	AD						27	a is more
	AE						21	7 10 2000
	AF	-	· · · · · · · · · · · · · · · · · · ·					
	AG						TECH	CENTER 1600/20
	AH							
	AI							
	AJ							
	AK							
		·		FOREIGN 1	PATENT DOCUMENTS			
XAMINER NITIAL		DOC	UMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATIO
	AL	<u> </u>						Y∈ N
	AM							Ye N
	AN							Ye N
	AO							Ye N
	AP							Ye N
		0	THER (Including	g Author, Ti	tle, Date, Pertinent Pa	ges. etc		
мм	AR	88	Iannolo, G., the Major Cap (1995)	et al., "Mo psid Protein	difying Filamentous Pha ," <i>J. Mol. Biol. 248:</i> 83	ge Capsi 5-844, A	d: Limits in cademic Pres	the Size o
	AS	88	antigen to al	.dehyde-fixe	.M., "A method for coup d erythrocytes for use , Elsevier/North-Hollan	in passi	ve hemagglut	ination " .7
1	AT	88	Class I prese	ntation of e	., et al., "Efficient m exogenous antigen upon SA 90:4942-4946, Nation	phagocyto	sia by macr	ophages."
KAMINER		Mary	Mosher/			DATE (CONSIDERED	08/31/20

Page 9 of 15

SP 1 5 2003 G

FORM PTO-1449

FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1700.0190004/BJI	
APPLICANT RENNER et al.	
FILING DATE January 18, 2002	GROUP

<u> </u>							ناحسطن		
					U.S. PAT	ENT DOCUMENTS			,
EXAMINE INITIAL			DOCU	JMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
		AA_			<u> </u>				EIVED
		AB						REU	ENED
		AC							Eme
		AD_			<u></u>			SEP	10 500
		AE							202930
		AF	<u> </u>		<u> </u>				CENTER TOOQIZAGO
		AG			<u> </u>			150	
		AH				<u> </u>			
~		AI							
		AJ	<u> </u>		<u> </u>			i	
		AK_	Ĺ						
			",		FOREIGN P	ATENT DOCUMENTS			
EXAMINE		1					l l		
INITIAL		┼	DOCT	MENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
		AL			<u> </u>				Yes No
		АМ							Yes No
_		AN							Yes
		AO							Yes No
		AP							Yes No
		1		THER (Includin	g Author, Ti	tle, Date, Pertinent	Pages etc	<u> </u>	NO.
MIN	ſ	AR	89	Lo, K. K-W., properties a	et al., "Sur	face-modified mutan mistry," FEBS Lett.	ts of cytoc 451:342-34	hrome P450ca 6, Elsevier	Science B.V.
		AS	<u>89</u>	Minenkova, O	.O., et al., er," Gene 128	"Design of specific :85-88, Elsevier Sc	: immunogens ience Publi	using filam shers B.V. (mentous phage (1993)
\	V	AT	<u>89</u>		peptides ha	epatitis B Virus su ving an attached hy (1989)			
EXAMINE	R	/M	larv	Mosher/			DATE	CONSIDERED	

Page 10 of 15

FORM PTO-1449 FIFTH SUPPLEMENTAL

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1700.0190004/BJD/SJE APPLICATION NO. 10/050,902

APPLICANT RENNER et al.

FILING DATE

January 18, 2002

GROUP 1648

U.S. PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT NUMBER DATE NAME CLASS SUB-CLASS FILING DATE AA AB AC AD ΑE AF TECH CENTER 1000/2000 AG HА AI ΑJ AK FOREIGN PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS TRANSLATION Yes ALNo Yes AM No Yes AN No Yes AO No Yes AP No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Perham, R.N., et al., "Engineering a peptide epitope display system on filamentous bacteriophage," FEMS Microbiol. Rev. 17:25-31, Elsevier Science AR 90 Publishers on behalf of the Federation of European Microbiological Societies MM (1995) Petrenko, V.A., et al., "A library of organic landscapes on filamentous phage," AS <u>90</u> Protein Engin. 9:797-801, Oxford University Press (1996) Pumpens, P. and Grens, E., "Hepatitis B core particles as a universal display model: a structure-function basis for development." FRBS Lett. 442:1-6, AT 90 Elsevier Science B.V. on behalf of the Federation of European Biochemical Societies (1999) EXAMINER DATE CONSIDERED

/Mary Mosher/

08/31/2006

Page 11 of 15

SEP 1 5 2003 CO

FORM PTO-1449

ATTY. DOCKET NO. 1700.0190004/BJD/SJE

APPLICATION NO. 10/050,902

APPLICANT

FIFTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

RENNER et al.

FILING DATE January 18, 2002 GROUP 1648

				***	70dildary 10, 2002		1646	
DVAMINDO	- - - - - - - - - - 	η		U.S. P	ATENT DOCUMENTS	 		
EXAMINER INITIAL		DOG	CUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILLING DAT
	AA						RECE	IVER
	AB						11100	
	AC						CED 1	6 7003
	AD						JE	
	AE							FR480012500
	AF						LECH CEN	
	AG	┼						
	HA IA	+					ļ	
······	AJ		-				ļ	
	AK	 						
	IAK	<u></u>						<u> </u>
XAMINER		T-		FOREIGN	PATENT DOCUMENTS		γ	
NITIAL		DOC	UMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATIO
· · · · · · · · · · · · · · · · · · ·	AL							Ye N
	АМ		:					Ye N
	AN							Ye
	AO							Ye
	AP							Ye
		0	THER (Trainding	a Anthon mi	tle, Date, Pertinen		<u> </u>	N
мм	AR	<u>91</u>	Quash, G., et	al., "The p	preparation of lateres agglutinins and cods 22:165-174, Else	x particles of	with covalen	
	AS	<u>91</u>	Raychaudhuri, better vaccin	S., and Roces," <i>Nat</i> . B:	ck, K.L., "Fully moiotechnol. 16:1025-1	oilizing host	: defense: B America, In	uilding c. (1998)
1	АТ	<u>91</u>	Redfield, R.R Immunodeficie Massachusetts	TCA ATTER IN	Disseminated vaccir (IV) disease, N. Br (iety (1987)	nia in a mili ng. J. Med. 3	tary recruit 16:673-676,	t with Huma
CAMINER	/	Mary	Mosher/	· · · · · · · · · · · · · · · · · · ·		DATE C	ONSIDERED	08/31/20

Page 12 of 15

FORM :	PTO-	14	4	9
--------	------	----	---	---

FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1700.0190004/BJD/SJE	APPLICATION NO. 10/050,902
APPLICANT RENNER et al.	
FILING DATE	GROUP

	DT.	ווס עיים	PPLEMENTAL		***************************************				
INF			CLOSURE STATE	<u>MENT</u>	FILING DATE GROUP January 18, 2002 1648				
				U.S. 1	PATENT DOCUMENTS				
XAMINER									
NITIAL		DOC	JMENT NUMBER	DATE	NAME	CLASS	S SUB-CLASS	FILING DATE	
	AA	+					- 		
	AB	-		 				ENED	
	AC	-		 			- AFC	16 000	
	AD	-		-				16 7003	
	AE		<u></u>					102	
	AF AG		·	 	- 			CENTER 1600 CE	
	AH		·····				TECH	CENTON	
	AI	+							
	AJ			†					
	AK	1						<u> </u>	
· · · · · · · · · · · · · · · · · · ·	1		-	FOREIGN	PATENT DOCUMENTS				
KAMINER	T			<u> </u>	1				
NITIAL		DOC	JMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATIO	
	AL							Ye N	
								Ye	
 	AM	 			·		-	Ye	
	AN							N	
	AO							Ye N	
	+			1				Ye	
	AP					<u> </u>		N	
		0'	THER (Includin	g Author,	Title, Date, Pertin	ent Pages, et	ta.)		
MM	AR	92		ibody," J.	Molecular Basis for Immunol. 165:813-8				
	AS	92	carrier: A n	ovel nonreg	ecombinant parvovir plicative exogenous cells," <i>Proc. N</i> atl.	antigen to e	licit protect	tive	
\bigvee	AT	92		Lymphocytes	ombinant Virus Vacc s," Science 252:440 (1991)				
	<u> </u>	<u> </u>	Mosher/				CONSIDERED		

Page 13 of 15



FORM PTO-1449

FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.	APPLICATION NO.
1700.0190004/BJD/SJE	10/050,902
APPLICANT RENNER et al.	
FILING DATE	GROUP
January 18, 2002	1648

				T C DA	FENT DOCUMENTS		1040	
EXAMINER	<u> </u>	T		1 0.5. 72	I DOCUMENTS			1
INITIAL		DOC	UMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA							
	AB							ECEME
	AC						£0	
	AD							2EP 16 500
	AR							SCI 10
	AP			<u></u>	<u></u>			506
	AG							SECTION AND ASSESSED.
	AH						<u> </u>	
<u> </u>	AI	<u>- </u>	•			-		
	AJ							
	AK							
				FOREIGN P	ATENT DOCUMENTS			
EXAMINER								
NITIAL		DOC	UMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL							Yes No
	1							Yes
·············	AM	-						No Yes
	AN						ļ	No
	AO							Yes No
	AP							Yes No
	IAF		muma /ragludia	a luthar Ti	tle, Date, Pertinent Pa			1 80
мм I	AR	93			nzyme Immunoassay of Ne J. Pharm. Dyn. 4:812-8			
	AS	93	Townsend, A. lymphocytes,	, and Bodmer, " Ann. Rev	, H., "Antigen recognit Immunol. 7:601-624, Ann	ion by c ual Revi	lass I-rest ews, Inc. (ricted T 1989)
V	AT	93	Neutralization	on Activity a	Antibodies with Specifi against Primary Human I unization with Oligomer or Microbiology (1997)	mmunodef	iciency Vir	us Type 1
YAMTNED	ــــــــــــــــــــــــــــــــــــــ	<u> </u>	<u> </u>			1	CONCIDERRO	

EXAMINER

/Mary Mosher/

DATE CONSIDERED

08/31/2006

Page 14 of 15



FORM PTO-1449

FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1700.0190004/BJD/SJE	APPLICATION NO. 10/050,902
APPLICANT RENNER et al.	
FILING DATE January 18, 2002	GROUP 1648

					January 18, 2002		1648	
				U.S. PA	TENT DOCUMENTS			
EXAMINER								
INITIAL		DOC	UMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA	-		 			REC	EMED
	AB	-		 			 	
	AC	┪			······································		SEP	16 2003
	AD AE	+-						
	AF						TECHÇE	THE REAL PROPERTY.
	AG	+		·····			100045	
	AH	+-					 	
	AI	+	-	-			 	
	AJ	1						
	AK	1						
	1			FOREIGN I	PATENT DOCUMENTS	I	<u> </u>	·
EXAMINER	T	T		T		<u> </u>		
NITIAL		DOC	UMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATIO
	AL							Ye N
	АМ							Ye N
	AN							Ye N
	AO							Ye
		1						Ye
	AP			<u> </u>			<u> </u>	N
мм	AR	94	Watkins, S.J	. et al. "	tle, Date, Pertinent P The 'adenobody' approac gene delivery," Gene Ti	to vir	al targeting	g: specific ockton Press
	AS	94	Willis, A.E. display on a Publishers B	filamentous	mmunological properties bacteriophage," <i>Gene</i> :	of fore 128:79-83	ign peptide , Elsevier &	s in multipl Science
V	AT	94	Dialog File : for WO 94/064	351, Accessi 172 (Documen	on No. 7431992, Derwent t AP3)	; WPI Eng	lish languas	ge abstract
XAMINER	/	Mary	Mosher/			DATE	CONSIDERED	08/31/20

Page 15 of 15

OTP E 1000 SEP 1 5 2003 SEP
TRADERARE

FORM PTO-1449

FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

-					
	ATTY. DOCKET NO. 1700.0190004/BJD/SJE	APPLICATION NO. 10/050,902			
	APPLICANT RENNER et al.				
	FILING DATE January 18, 2002	GROUP 1648			

					January 18, 2002	4	1648	
				v.s. 1	PATENT DOCUMENTS		_	
EXAMINER INITIAL		DOC	UMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	PILING PATT
	AA				······			EIM ACTION
	AB	4					AF	
	AC						ļ	15 TIB
	AD						8	3.0
	AE			ļ				1000
	AF	-		<u> </u>			-	C. Section
	AG			ļ				<u> </u>
	AH							ļ
	AI	- 	 				ļ	
	AJ	+						
	AK			<u> </u>				
	1	1		FOREIGN	PATENT DOCUMENTS		1	1
EXAMINER INITIAL		DOC	UMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL							Ye N
	АМ							Ye N
	AN							Ye
		1						Ye
 	AO	 						No.
	AP							No.
		0'	THER (Includin	g Author, ?	ritle, Date, Pertin	ent Pages, etc	:.)	
мм	AR	<u>95</u>	International PCT/IB99/019 publication)	l Prelimina 25, Europea	ry Examination Repo n Patent Office, M	ort for Intern unich (August	ational App 2000) (not	lication No. for
\bigvee	AS	<u>95</u>	International Search Report for International Application No. PCT/IB99/01925, European Patent Office, Netherlands (June 2000) (not for publication)					
	AT							
XAMINER	/	Mary	Mosher/			DATE	CONSIDERED	08/31/20